CALIFORNIA BAY-DELTA AUTHORITY

Independent Science Board Nominees

Brief Biographies

Ken Cummins, Ph.D

Senior Advisory Scientist, California Cooperative Fisheries Unit, and Adjunct Professor, Humboldt State University.

An expert in stream, river and wetland ecology, Dr. Cummins currently is a member of the Independent Science Board for the CALFED Ecosystem Restoration Program. He has done extensive research on aquatic ecosystems and land-water interactions, including sources and concentrations of organic carbon. He has served on several national science advisory committees and previously held the post of distinguished scientist for the South Florida Water Management District's Ecosystem Restoration Department, and is a member of the Science Advisory Board for USEPA. He earned his doctorate in zoology / limnology from the University of Michigan, Ann Arbor.

David Freyberg, Ph.D.

Associate Professor, Department of Civil & Environmental Engineering, Stanford University

Dr. Freyberg's research interests include surface and subsurface hydrology, ephemeral channels, wetlands and sediment management in small reservoirs. He is an expert in hydrology, hydrogeology, and water resources engineering, and has served as a member of the Environmental Water Account review panel for the California Bay-Delta Program. He is a past chair of the National Research Council's Water Science and Technology Board, and co-author of the widely used text, Water-Resources Engineering. He earned his doctorate in engineering from Stanford University.

William Glaze, Ph.D.

Professor, Department of Environmental and Biomolecular Systems, Oregon Health and Science University

Current chair of the U.S. Environmental Protection Agency's Science Advisory Board, Dr. Glaze is an expert in water quality and drinking water treatment. He serves on the National Academy of Sciences Board of Environmental Studies and Toxicology, and is a former chair of EPA's Drinking Water Committee. He received his doctorate in physical chemistry from the University of Wisconsin.

Helen Ingram, Ph.D

Professor of Social Ecology, University of California, Irvine

With her research focus on water resources and equity issues, Dr. Ingram has participated in numerous science conferences and symposia convened by the California Bay-Delta Authority. She is considered an expert in environmental and water policy design and implementation, and has done extensive research into institutional change and the impact of policy on democracy and public participation. She is a member of the National Academy of Sciences and Technology Board and, since 2001, has served on the review panel for CALFED's Environmental Water Account. She received her doctorate in public law and government from Columbia University.

Anne Kapuscinski, Ph.D.

Professor of Fisheries and Wildlife Conservation, University of Minnesota

Dr. Kapuscinski serves as an international advisor on transgenic fish and conservation ecology. An expert in fisheries, genetics and conservation biology, she has worked extensively on Northwest salmon management issues, including hatcheries. She recently was awarded a Pew Marine Conservation Fellowship, the world's preeminent award for marine conservation. Dr. Kapuscinski earned her doctorate in fisheries (genetics) at Oregon State University.

Jack Keller, Ph.D.

Principal, Keller-Bleisner Engineering, and Professor Emeritus, Utah State University

A member of the National Academy of Engineering, Dr. Keller is an international advisor on agricultural water use. He is considered an expert in irrigation, water conservation, and water resources planning in irrigated regions. He serves as an advisor and lead scientist to the California Bay-Delta Authority's Water Use Efficiency Program. Dr. Keller has a degree in civil engineering and earned his doctorate in agricultural and irrigation engineering at Utah State, University.

Jeff Koseff, Ph.D.

Professor of Environmental Fluid Mechanics in the Department of Civil and Environmental Engineering, Stanford University

Dr. Koseff's research interests are in the general area of environmental fluid mechanics, and focus specifically on the interaction between physical and biological processes, and on transport and mixing processes in the near-coastal environment. An expert in San Francisco Bay and Delta hydrodynamics, Dr. Koseff's work includes modeling and research into transport and mixing processes in the Bay, and the dynamics of stratified flows. Specific research includes bivalve feeders and benthic boundary layers, phytoplankton dynamics in estuarine systems, hydrodynamic transport in estuarine systems and coastal upwelling processes. He earned his doctorate in civil and environmental engineering from Stanford University.

John Melack, Ph.D.

Professor, Donald Bren School of Environmental Science and Management, and Department of Ecology, Evolution and Marine Biology, University of California, Santa Barabara

An international advisor on lake ecosystems, freshwater ecosystems and climate change, Dr. Melack conducts research programs in limnology, biogeochemistry and remote sensing. He serves on the National Academy of Sciences panel on geophysical and environmental data, and is an advisor to NASA on uses of remote sensing. He is a member of the In-Delta Storage Science Review Panel for the California Bay-Delta Authority. Dr. Melack earned his doctorate in biological sciences from Duke University.

Judith Meyer, Ph.D.

Distinguished Research Professor of Ecology, University of Georgia

A nationally recognized expert on aquatic ecology and rivers, Dr. Meyer is past president of the Ecological Society of America and has been Director of the River Basin Science and Policy Center at the University of Georgia. She is the 2003 recipient of the Award of Excellence in Benthic Science and chaired the Technical Selection Committee for the California Bay-Delta Program's 2002 Ecosystem Restoration Program grant selection process. She earned her doctorate at Cornell University.

Jeff Mount, Ph.D.

Professor, Department of Geology, University of California, Davis

Dr. Mount's research program focuses on the geology, geomorphology and restoration of lowland river systems. Dr. Mount is also involved in the integration of science and policy in the management of California's rivers. Author of the acclaimed book, California Rivers and Streams, Dr. Mount currently holds the Roy. J. Shlemon Endowed Chair in Applied Geosciences at UC Davis and is the Director of the UC Davis Watershed Center. He serves as a member of the California Reclamation Board and is a member of the

National Academy of Sciences Committee on the Klamath River. He received his doctorate in Earth Sciences from the University of California, Santa Cruz.

Duncan Patten, Ph.D.

Research Professor, Montana State University

With expertise in plant biology and riparian ecology, Dr. Patten has conducted extensive research into ecological processes and restoration of western riparian and wetland ecosystems. He was a senior scientist with the Bureau of Reclamation's Glen Canyon Environmental Studies, overseeing research on the effects of operations of Glen Canyon Dam on the Colorado River riverine ecosystem. He has served on National Science Foundation panels, has been a member of various committees, boards, and commissions of the National Research Council and has been an officer in the Ecological Society of America. He received his doctorate from Duke University.

Denise Reed, Ph.D.

Professor, Department of Geology and Geophysics, University of New Orleans

Dr. Reed's current research focus includes sediment dynamics and wetlands restoration in the Sacramento-San Joaquin Delta, Louisiana and the Columbia River estuary. She is considered an expert in wetlands geomorphology and has helped develop restoration plans for coastal Louisiana for the past five years. Dr. Reed currently serves on the Ecosystem Restoration Program Independent Science Board for the California Bay-Delta Program. She earned her doctorate in geography from the University of Cambridge in England.

Kenneth Rose, Ph.D.

Professor, Department of Oceanography & Coastal Sciences/Coastal Fisheries Institute, Louisiana State University

With expertise in fish ecology and population models, Dr. Rose has published numerous articles and served on many national advisory panels regarding fish and water policy. His current research involves mathematical and computer modeling of aquatic populations, communities, food webs and ecosystems. In addition, Dr. Rose currently serves on the review panel for the Environmental Water Account of the CBDA. He received his doctorate from the University of Washington.

Robert Twiss, Ph.D.

Professor, Graduate Center for Environmental Design Research, University of California, Berkeley

As an expert in environmental and regional planning, Dr. Twiss has been involved in all levels of planning and research for local, regional state and federal agencies as well as the United Nations. He serves as co-chair of the Independent Science Board for the California Bay-Delta Authority's Ecosystem Restoration Program. He also serves as

consultant to the California Attorney General's Office, and is a member of the Independent Science Panel for the North Coast Regional Water Quality Control Board and Humboldt County Watersheds. He received his doctorate in conservation from the University of Michigan.

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